

Issue No:48 February 2009



Loger province with -18.2 Co experienced extreme cold in the month of February 2009 while Kandahar with 25 Co was the warmest spot.





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S/N	Crop Information Page	Images
1	Crop Stage, Crop Condition and Adverse Factor1-2	
2	Crop Maps3	Crop Stage D. S. E. Wigetolive Z. Dormancy
	Rainfall Situation	9000 MIN WILLIAM IN
3	Rainfall Situation4	
4	Rainfall Graphs5, 7	at special
	Temperature	
5	Average Temperature8	
6	Maximum and Minimum Temperature9	00 ax 7 cmp 07 00 th 7 cmp 07
N	Normalized Difference Vegetation Index (NDVI).15	
7	Comparison of (NDVI)10	Min capacity Affairs American (Min Capacity A
	1 2 3 4	Crop Information Crop Stage, Crop Condition and Adverse Factor



8	Comparison of Snow Extent and Depth11- 12
9	Afghanistan Snow Depth13



Summary

Afghanistan experienced an increase of temperature which contributed to early rainfall all over the country compared to the same month of last year except in parts of Farah, Lashkarkag and Jalalabad, where majority of irrigated and rain fed land are located.

The central high land and Hindokush chain experienced early snow melting. lack of infrastructure, most of the snowmelt was lost to runoff before its captured for irrigation uses. Potential flash flood may result from runoff.

Reports from meteorological stations show that various parts of the country that are explained in page 4 experienced above normal snow melt. NDVI (Normalized Difference Vegetation Index) value had a small increase in Eastern, Southeast and Western region compared to the same month of last year while the country experience a large decrease of NDVI value compared to the same month of long term average.

Wheat is in dormancy and in emerging stage in some parts of the country (that are specified inside the bulletin) except the Eastern region where wheat is in vegetative stage.

Reports from Hirat province show an increase of rainfall and rain fed cultivation.

Zone	Province	District	Station	Wheat Crop Stage	Crop Condition	Adverse Factor
		Shakardara	Karizmir	Dormancy	Not visible	Not seen
	Kabul	Paghman	Paghman	Dormancy	Not visible	Not seen
		Sarubi	Sarubi	Vegetative	Normal	Not existed
	Panjsher	Dara	Dara	Dormancy	Not visible	Not seen
		Dashtak	Dashtak	Dormancy	Not visible	Not seen
Central	Parwan	Ghorband	Syagerd	Emergence	Not visible	Not seen
	1 ai waii	Charikar	Charikar	Emergence	Not visible	Not seen
	Kapisa	Mahmoodraqi	Mahmoodraqi	Emergence	Not visible	Not seen
	Kapisa	Kohistan	Kohistan	Emergence	Not visible	Not seen
	Wardak	Chak	Chak	Dormancy	Not visible	Not seen
	waruak	Jaghatoo	Jaghatoo	Dormancy	Not visible	Not seen Not seen Not existed Not seen
	Bamyan	Bamyan	Bamyan	Dormancy	Not visible	Not seen
East Central		Yakawlang	Yakawlang	Dormancy	Not visible	Not seen
		Panjab	Panjab	Dormancy	Not visible	Not seen
		Agam	Agam	Vegetative	Normal	Not existed
	Nangarhar	Batikot	Ghaziabad	Vegetative	Normal	Not existed
	Nangarnar	Jalalabad	Sheshembagh	Vegetative	Normal	Not seen Not existed Not existed Not existed Not existed Not existed
Eastern		Jalalabad	Farm Jadeed	Vegetative	Normal	Not existed
	Konar	Asmar	Asmar	Vegetative	Good (better than normal)	Not existed
		Asadabad	Asadabad	Vegetative	Good (better than normal)	Not existed
	Laghman	Mihtarlam	Mihtarlam	Vegetative	Normal	Not existed

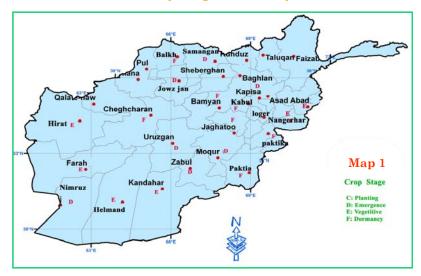
Crop Stage, Crop Condition and Adverse Factor

Zone Province District Station Wheat Cro						A drange Feeten
Zone	Province	District	Station	Stage	Crop Condition	Auverse ractor
	Takhar	Bangi	Bangi	Emergence	Not visible	Not seen
		Taluqan	Taluqan	Emergence	Not visible	Not seen
	Kunduz	Imam Sahib	Imam Sahib	Emergence	Not visible	Not seen
Northeast		Aqtipa	Aqtipa	Emergence	Not visible	Not seen
Northeast		Chardara	Chardara	Emergence	Not visible	Not seen
		Kunduz	Kunduz	Emergence	Not visible	Not seen
	Baghlan	Baghlan Jadid	Pozaishan	Emergence	Not visible	Not seen
	Badakhshan	Faizabad	Faizabad	Dormancy	Not visible	Not seen
		Khost	Khost	Vegetative	Normal	Not existed
	Khost	Shimal	Shimal	Vegetative	Normal	Not existed
		Ali Sher	Ali Sher	Vegetative	Normal	Not existed
	Paktia	Gardiz	Rohani Baba	Emergence	Not visible	Not seen
South Eastern	гакца	Zarmat	Tera	Emergence	Not visible	Not seen
South Eastern		Urgon	Urgon	Emergence	Not visible	Not seen
	Paktika	Sharana	Sharana	Dormancy	Not visible	Not seen
		Khairkot	Khairkot	Dormancy	Not visible	Not seen
	Ghazni	Muqur	Muqur	Dormancy	Not visible	Not seen
		Bande Sardi	Bande Sardi	Dormancy	Not visible	Not seen
	Nimroz	Zaranj	Zaranj	Emergence	Not visible	Not seen
	Kandahar	Kandahar	Kandahar	Vegetative	Normal	Not existed
	Zabul	Qalat	Qalat	Emergence	Not visible	Not seen
Southern	Urozgan	Tarinkot	Tarinkot	Emergence	Not visible	Not seen
		Nad Ali	Nad Ali	Vegetative	Normal	Not existed
	TT'1 1	Greshk	Greshk	Vegetative	Normal	Not existed
	Hilmand	Nawa	Nawa	Vegetative	Normal	Not existed
		Lashkargah	Bolan	Vegetative	Normal	Not existed
	Balkh	Dihdadi	Dihdadi	Vegetative	Normal	Not existed
		Nahrishahi	Nahrishahi	Vegetative	Normal	Not existed
	Iowaian	Sheberghan	Sheberghan	Emergence	Not visible	Not seen
	Jawzjan	Darzab	Darzab	Emergence	Not visible	Not seen
North	Savinul	Saripul	Saripul	Emergence	Not visible	Not seen
	Saripul	Sozmaqala	Sozmaqala	Emergence	Not visible	Not seen
	Faryab	Maimana	Maimana	Emergence	Not visible	Not seen
	Samangan	Aibak	Aibak	Emergence	Not visible	Not seen
	Samangan	Dara Yosuf	Dara Yosuf	Emergence	Not visible	Not seen
	Badghis	Qalainow	Qalainow	Emergence	Not visible	Not seen
	Daugilis	Muqur	Muqur	Emergence	Not visible	Not seen
Western	Ghor	Chaghcharan	Chaghcharan	Dormancy	Not visible	Not seen
vv esterii	Hirat	Shindand	Shindand	Vegetative	Normal	Not existed
		Hirat	Farm Urdokhan	Vegetative	Normal	Not existed
	Farah	Farah	Farah	Vegetative	Normal	Not existed

Data Source: MAIL, Agromet Network, AMA, USGS, FAO

Crop Stage, Crop Condition and Adverse Factor, Maps

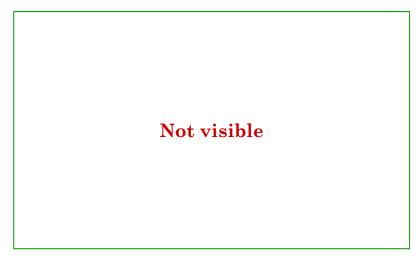
Wheat Crop Stage - February 2009



Wheat Crop Condition - February 2009



Wheat - Adverse Factor February 2009



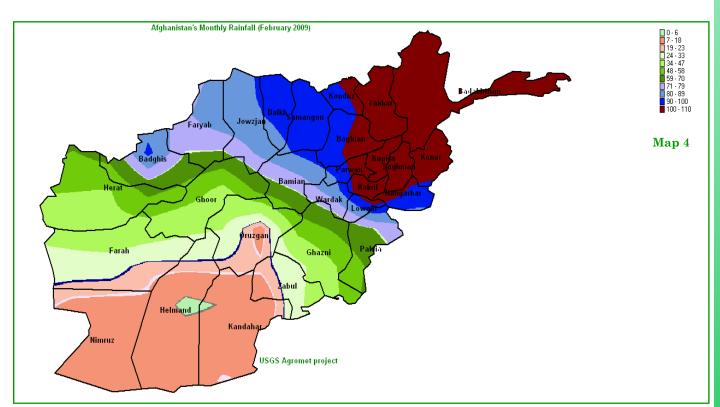
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Precipitation

Precipitation for the month of February 2009 Comparison of rainfall data for the month recorded significant increase compared to that of February 2009 with the same month of of the same month in 2008 in most parts of the Long term average (chart 2) shows an incountry, except Farah, Imamsahib, Jalalabad crease of rainfall during the month of Feband Lashkargha where rainfall had small ruary 2009 compared to the same month of decrease for the month of February 2009 long term. Average in most parts of the compared to that of the same month in 2008, country. Chart 1.

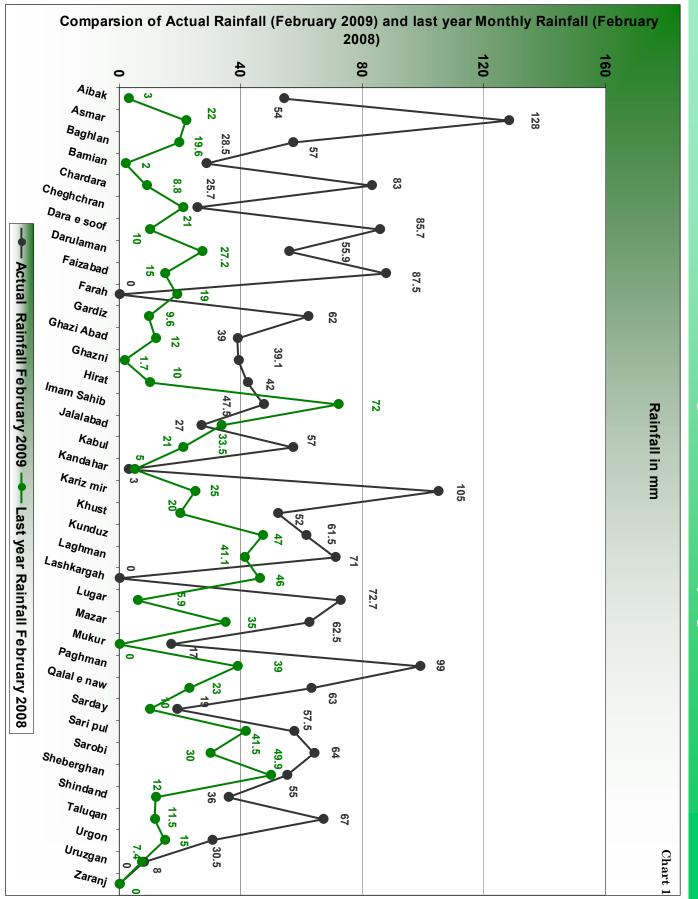
Table 1 shows percent of +/- in various parts of the country.

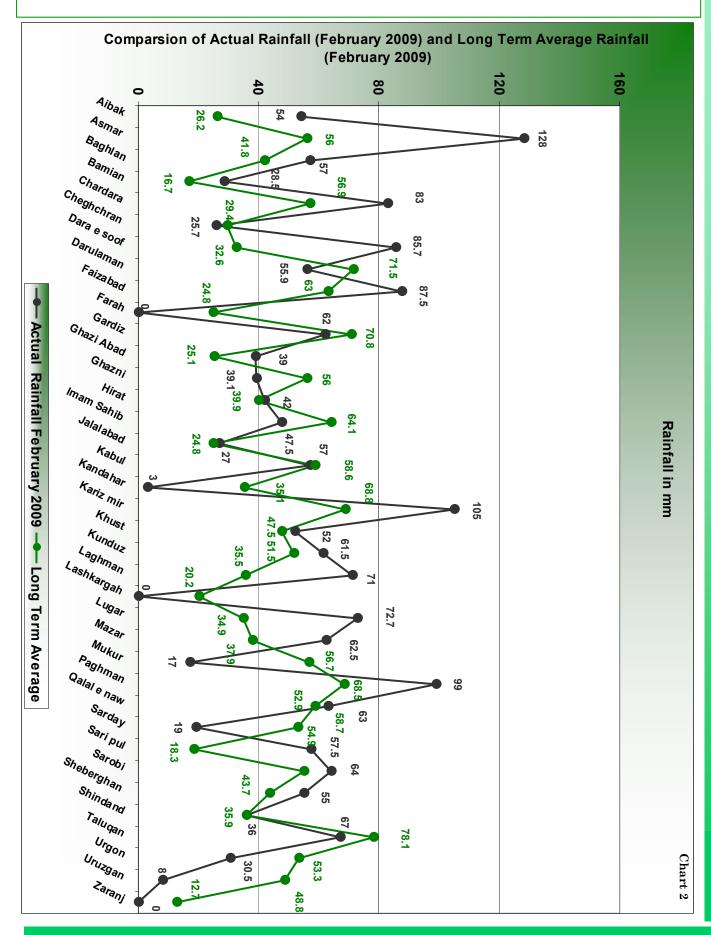
Table 2 shows percent +/- comparison with rainfall in long term average.



Map 4 shows rainfall distribution over the various parts of the country. The Northern, Northeastern, Northwestern, some parts of the Eastern and the Capital regions recorded good rainfall during the month of February 2009. The Central Highlands,

Western and Southeastern regions did not experience much rainfall during the month of February and the Southern and Southwestern regions received lease amount of rainfall during this month.



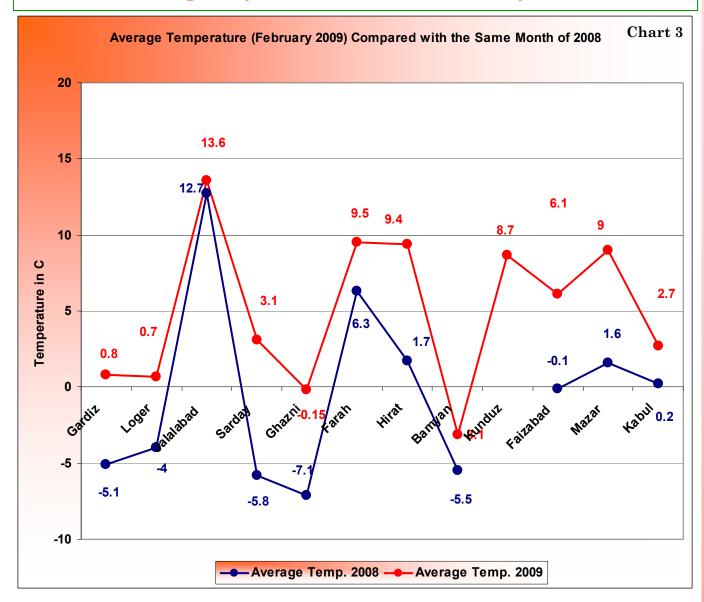


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Station	Actual Rainfall	Last year Rainfall	Long Term Average	
	February 2009	February 2008		
Aibak	54	3	26.2	
Asmar	128	22	56	
Baghlan	57	19.6	41.8	
Bamian	28.5	2	16.7	
Chardara	83	8.8	56.9	
Cheghchran	25.7	21	29.4	
Dara e soof	85.7	10	32.6	
Darulaman	55.9	27.2	71.5	
Faizabad	87.5	15	63	
Farah	0	19	24.8	
Gardiz	62	9.6	70.8	
Ghazi Abad	39	12	25.1	
Ghazni	39.1	1.7	56	
Hirat	42	10	39.9	
Imam Sahib	47.5	72	64.1	
Jalalabad	27	33.5	24.8	
Kabul	57	21	58.6	
Kandahar	3	5	35.1	
Kariz mir	105	25	68.8	
Khust	52	20	47.5	
Kunduz	61.5	47	51.5	
Laghman	71	41.1	35.5	
Lashkargah	0	46	20.2	
Lugar	72.7	5.9	34.9	
Mazar	62.5	35	37.9	
Mukur	17	0	56.7	
Paghman	99	39	68.5	
Qalal e naw	63	23	58.7	
Sarday	19	10	52.9	
Sari pul	57.5	41.5	18.3	
Sarobi	64	30	54.9	
Sheberghan	55	49.9	43.7	
Shindand	36	12	35.9	
Taluqan	67	11.5	78.1	
Urgon	30.5	15	53.3	
Uruzgan	8	7.4	48.8	
Zaranj	0	0	12.7	

Rainfall for the Month of February 2009

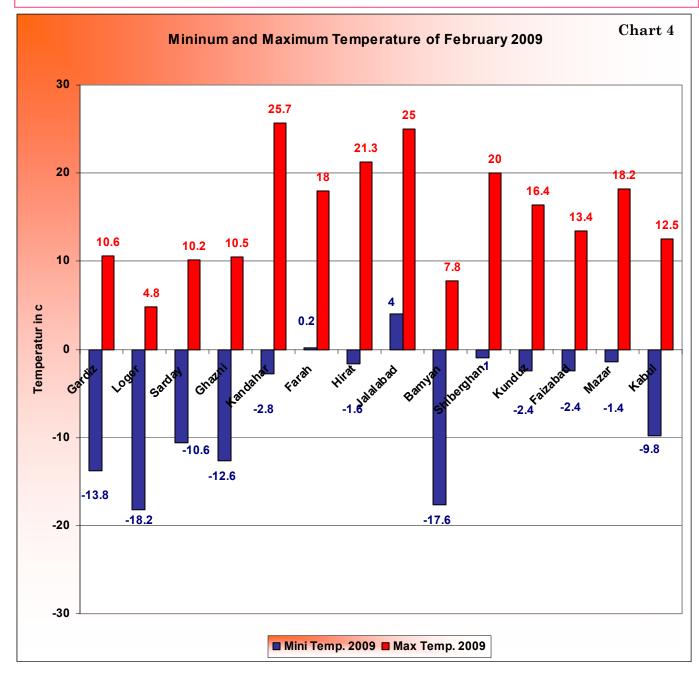
Average Temperature for the Month of February 2009



Temperature for the month of February 2009 Was 1-5C° higher than the same month of last year

Monthly average temperature for the month shows that February 2009 experienced of February 2009 had significant increase higher temperature. The warming deparcompared to the same month in 2008 across the country. Starting in late November 2008 and during early February 2009 monthly average temperature was above average. Comparison of monthly average temperature for the month of February 2009 with the same month of last year same month of last year.

ture of temperature during this month contributed to some early snow melting, reducing snow coverage and depth, primarily in the Northern and Northwestern regions, and temperature for the month of February current year 1 - 5 C⁰ was higher than the



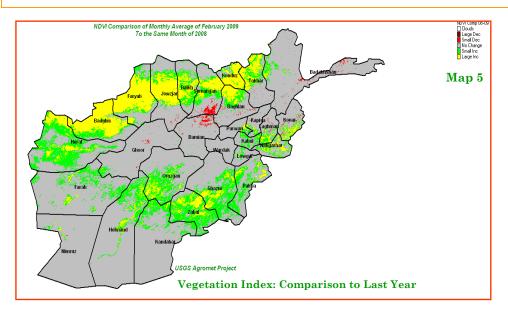
Loger with - 18.2 C $^{\circ}$ experienced extreme cold in the month of February 2009 while Kandahar with 25 C $^{\circ}$ was the warmest Spot in the country.

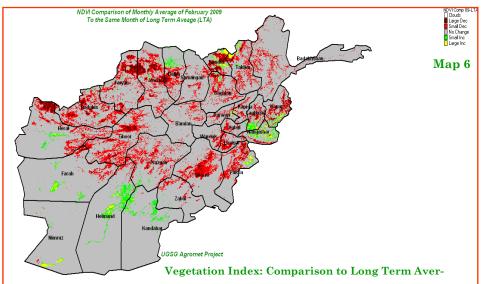
Chart (4) shows maximum and minimum temperatures for the month of February 2009 around the country. Kandahar with

 $25.7\ ^{\rm o}$ C was the warmest spot during the month of February 2009 while Logar with - 18.2 C experienced extreme cold in this month.

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Comparison of NDVI February 2009



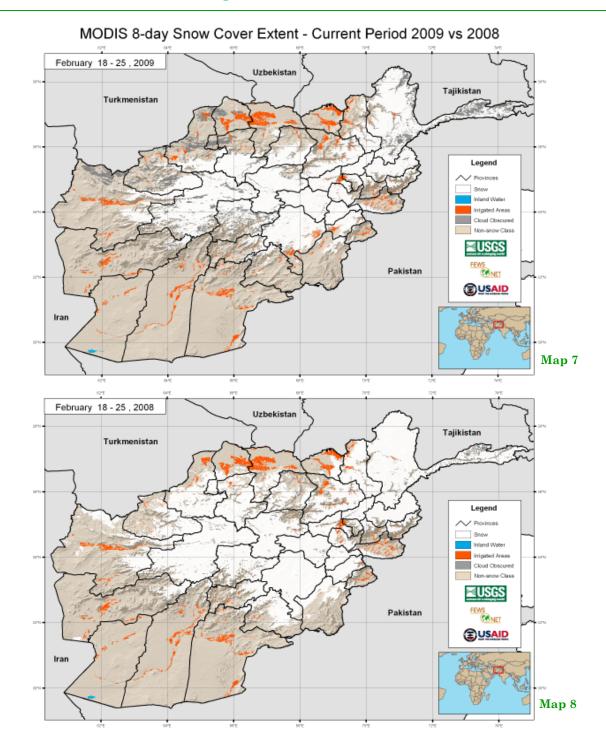


NDVI: February 2009

Comparison of monthly average of NDVI for the month of February 2009 with the same month in 2008 (map 5) shows large increase in NDVI value in the Northern, North Western and, some parts of the Northeastern regions during the month of February 2009 compared to the same month of last year, while NDVI had small increase in the in some parts in the Eastern, some parts of the Southeastern and some parts in the Western regions during this month over the same month in 2008. There is no change in NDVI value in the remaining regions of the country during the month of February 2009 compared to the same month of last year.

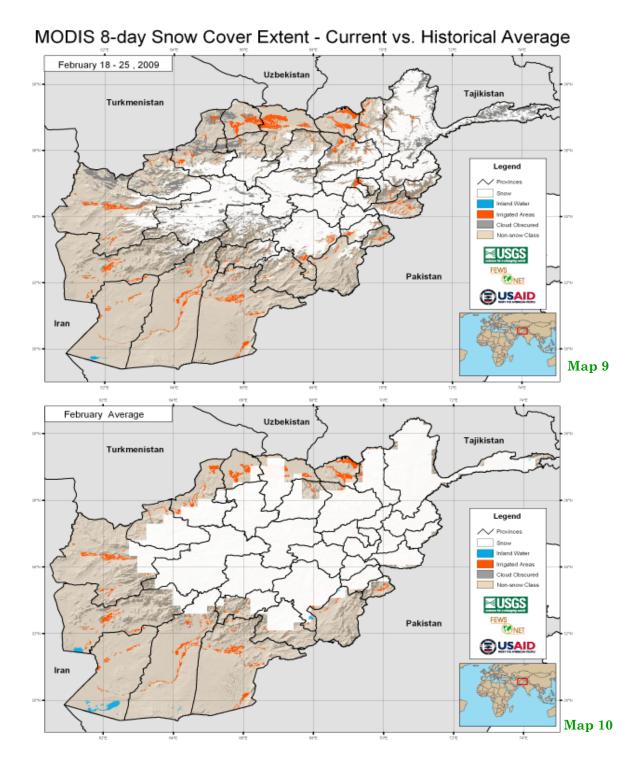
Comparison of monthly average of NDVI for the month of February 2009 with the same month of long term average (map 6) shows large decrease of NDVI in most parts of the country including Northern, Northwestern, Western mountainous areas, Northeastern, Eastern and most parts in the Southeastern regions during the month of February 2009 compared to the same month of long term average. There is no change in NDVI value in the Southern, Southwestern and Western flat areas during this month of current year over the same month of long term average.

Comparison of Snow Extent



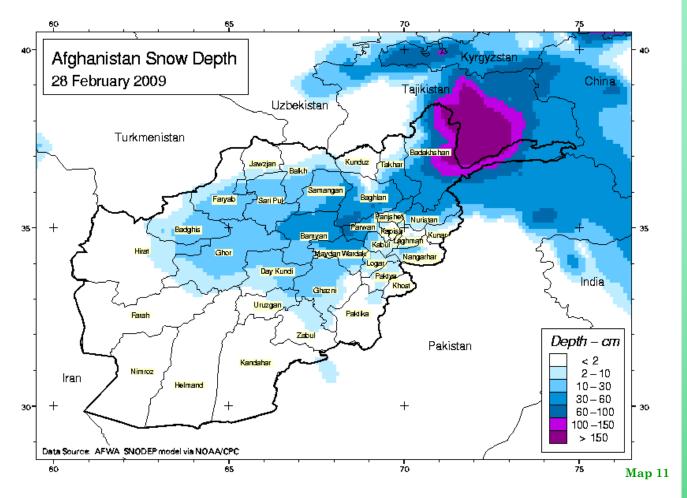
During the month of February a series of low – pressure system tracked toward the country and brought heavy snow to the Northeastern, Hindokush area and Central Highlands which cut to mountainous passes and has made travel difficult in this region. Warm temperatures causing early snow melting, reducing snow coverage and depth particularly in the Northern and Northwestern

regions, while the snow coverage remained near normal in the Northeastern, Hindokush area and Central Highlands during the month of February 2009. Comparison of snow extent for the period (February 18-25) 2009 with the same period in 2008 (map7) shows a decrease of snow extent in the Northern region.



Northwestern and limited area in the Northeastern regions. Comparison of snow extent for the month of February 2009 with the same month of long term average (map9) shows a decrease of snow extent during the month of February 2009 over the same month of long term average. Above normal temperature recorded for the month of February gradually melted snow and reduced snow extent particularly in the Northern region, Northwestern, Capital and the Western and Southern parts of Central Highlands.

Afghanistan Snow Depth for the of February 2009



Map (11) shows snow depth for the end of Northeastern borders, 60 - 100 cm for Capital February 2009 in snow coverage areas. Snow regions and 30 – 60 cm for Central Highlands. depth more than 150 cm recorded for the

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